

0941.65777



PATENT APPLICATION

copy  
ARG

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Sekido et al. )  
Serial No. 09/939,845 )  
Filed: August 27, 2001 )  
For: LIQUID CRYSTAL DISPLAY )  
APPARATUS AND REDUCTION )  
OF ELECTROMAGNETIC )  
INTERFERENCE )  
Art Unit: 2871 )  
Examiner: Ton, Minh Toan T. )  
Patent: 6,856,373 )  
Issued: Feb. 15, 2005 )

*I hereby certify that this paper is being deposited with the United States Postal Service as FIRST-CLASS mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this date.*

18 Oct 05

Date

Registration No. 29,367  
Attorney for Applicant

**REQUEST FOR RECONSIDERATION OF REQUEST  
FOR CERTIFICATE OF CORRECTION UNDER RULE 322**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450  
ATTN: Certificate of Corrections Branch

**Certificate  
OCT 24 2005  
of Correction**

Dear Sir:

An April 14, 2005 Request for Certificate of Correction was denied on September 22, 2005 (copy enclosed). The denial was in error, so patentees, through their attorneys, respectfully request reconsideration of their request that a Certificate of Correction be issued in the above-referenced patent.

The patentees have attached a copy of Amendment B which shows the status of the claims as allowed by the examiner. More specifically, Amendment B shows that claim 1

should recite “cells” not “cell”. In addition, Amendment B shows claims 36 and 37. The patentees have also attached a copy of the Notice of Allowability in which the examiner entered Amendment B and allowed the claims contained in the amendment.

The errors occurred as a result of mistakes on the part of the Patent and Trademark Office and the changes include the following:

In the Claims:

Col. 26, line 39, delete "cell" and insert --cells-- (Amend. B, p. 2).

Col. 26, add the following claims which were inadvertently omitted by the Patent Office:

5. A liquid crystal display apparatus as claimed in claim 2, wherein a contrast of middle tones on a white side can be maintained by using only a middle tone on a black side before T-V characteristics begin to surge as the middle tones.

6. A liquid crystal display apparatus as claimed in claim 2, wherein liquid crystal molecules are vertically aligned when no voltage is applied.

## REMARKS

A Certificate of Correction incorporating the delineated change is enclosed in duplicate. Since the mistakes were on the part of the Patent and Trademark Office, a Certificate of Correction should be issued without expense to the patentee and such is respectfully requested.

Respectfully submitted,

GREER, BURNS & CRAIN, LTD.

By



Patrick G. Burns  
Registration No. 29,367

October 18, 2005

300 South Wacker Drive  
Suite 2500  
Chicago, Illinois 60606  
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Facsimile: 312.360.9315

Customer No. 24978

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(Also Form PTO-1050)

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 6,856,373  
DATED : Feb. 15, 2005  
INVENTOR(S) : Satoshi Sekido

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

### In the Claims:

Col. 26, line 39, delete "cell" and insert --cells--.

Add the following claims:

5. A liquid crystal display apparatus as claimed in claim 2, wherein a contrast of middle tones on a white side can be maintained by using only a middle tone on a black side before T-V characteristics begin to surge as the middle tones.

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MAILING ADDRESS OF SENDER:  
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300 South Wacker Drive, Suite 2500  
Chicago, IL 60606

PATENT NO 6,856,373  
No. of additional copies 1



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re U.S. Patent Application )

Applicant: Sekido et al. )

Serial No. 09/939,845 )

Filed: August 27, 2001 )

Conf. No.: 3133 )

For: LIQUID CRYSTAL DISPLAY )  
APPARATUS AND REDUCTION )  
OF ELECTROMAGNETIC )  
INTERFERENCE )

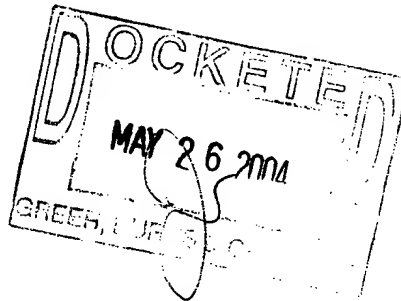
Art Unit: 2871 )

Examiner: Ton, Minh Toan T. )

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5/24/04  
Date

Joseph P. Jor  
Registration No. 41,760  
Attorney for Applicant



**AMENDMENT B**

Mail Stop RCE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Prior to issuance of this Application, please amend the Application as follows:

In the Claims:

Please add new claims 36 and 37 as follows:

1-8. (Cancelled)

9. (Original) A method of making a liquid crystal display apparatus that displays an image on a liquid crystal panel including liquid crystal cells, comprising a step of determining a  $\gamma$  value serving as an index for a gradation-luminosity characteristic according to a thickness of the liquid crystal cells or a birefringence index of a liquid crystal layer included in the liquid crystal cells.

10. (Original) A liquid crystal display apparatus that displays an image on a liquid crystal panel including liquid crystal cells, wherein a  $\gamma$  value which serves as an index of gradation-luminosity characteristic in said liquid crystal panel is set to above 1.9 and within a  $\pm 30\%$  range of 0.008 times  $\Delta n d$  and where  $\Delta n$  represents an anisotropy of a refractive index and  $d$  represents a thickness of said liquid crystal cells.

11. (Original) The liquid crystal display apparatus as claimed in claim 10, wherein said  $\gamma$  value is set between 2.15 and 3 while the product  $\Delta n d$  is within limits of  $350\text{nm} \pm 50\text{nm}$ .



12. (Original) The liquid crystal display apparatus as claimed in claim 10, wherein said  $\gamma$  value is set between 2.0 and 2.3 while the product  $\Delta n d$  is within limits of  $280\text{nm} \pm 50\text{nm}$ .

13-35. (Cancelled)

36. (New) A liquid crystal display apparatus as claimed in claim 10, wherein a contrast of middle tones on a white side can be maintained by using only a middle tone on a black side before T-V characteristics begin to surge as the middle tones.

37. (New) A liquid crystal display apparatus as claimed in claim 36, wherein liquid crystal molecules are vertically aligned when no voltage is applied.

### REMARKS

Applicants have added new claims 36 and 37. These claims are believed allowable based on their features and dependence from allowed claim 10.

Applicants respectfully request examination of the claimed invention on its merits. The Examiner is invited to contact the undersigned attorney if an interview would expedite prosecution.

Respectfully submitted,

GREER, BURNS & CRAIN, LTD.

By

  
Joseph P. Fox

Registration No. 41,760

May 24, 2004

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Chicago, Illinois 60606

Telephone: (312) 360-0080

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Customer Number 24978

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## UNITED STATES PATENT AND TRADEMARK OFFICE

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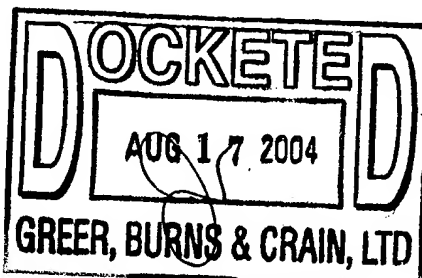


## NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

08/11/2004

Patrick G. Burns, Esq.  
GREER, BURNS & CRAIN, LTD  
Suite 2500  
300 South Wacker Dr.  
Chicago, IL 60606



EXAMINER

TON, MINH TOAN T

ART UNIT

PAPER NUMBER

2871

DATE MAILED: 08/11/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/939,845	08/27/2001	Satoshi Sekido	0941.65777	3133

TITLE OF INVENTION: LIQUID CRYSTAL DISPLAY APPARATUS AND REDUCTION OF ELECTROMAGNETIC INTERFERENCE

Due 11-12-04

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	11/12/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHT THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPO PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THE STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL 85B (O AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

## HOW TO REPLY TO THIS NOTICE:

## I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee Transmittal and pay the PUBLICATION FEE (if required) and 1 the ISSUE FEE shown above.

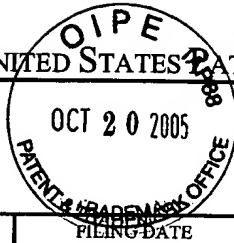
II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER:** Utility patents issued on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is the patentee's responsibility to ensure timely payment of maintenance fees when due.



UNITED STATES PATENT AND TRADEMARK OFFICE



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/939,845	08/27/2001	Satoshi Sekido	0941.65777	3133

7590 08/11/2004

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EXAMINER

TON, MINH TOAN T

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PAPER NUMBER

2871

DATE MAILED: 08/11/2004

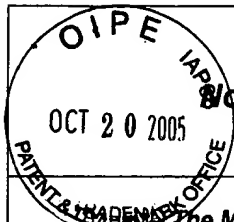
**Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**  
(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 202 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 202 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



# Notice of Allowability

Application No.

09/939,845

Examiner

Toan Ton

Applicant(s)

SEKIDO ET AL.

Art Unit

2871

**THE MAILING DATE of this communication appears on the cover sheet with the correspondence address--**  
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to papers filed 05/27/04.
2. ☒ The allowed claim(s) is/are 9-12, 36 and 37.
3. ☒ The drawings filed on 08/27/01 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All b) ☐ Some\* c) ☐ None of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

*TOAN TON*  
TOAN TON  
PRIMARY EXAMINER

COPY



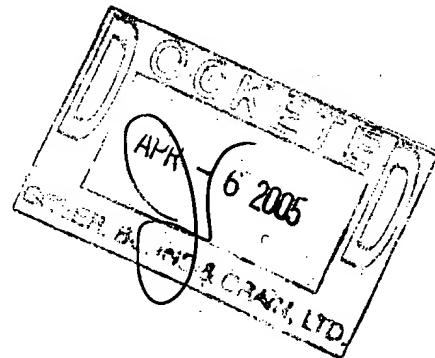
In re Patent 6,856,373  
Sekido et al.  
LIQUID CRYSTAL DISPLAY APPARATUS...  
Issued: 2-15-05

PGB:kmw  
0941.65777  
April 4, 2005

Request for certificate of correction; PTO-1050 in duplicate; and Certificate of Mailing.

Commissioner for Patents  
Please acknowledge receipt of the above-identified documents by applying the Patent and Trademark Office receipt hereto and mailing this card.

Respectfully,  
GREER, BURNS & CRAIN, LTD.



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PATENT APPLICATION

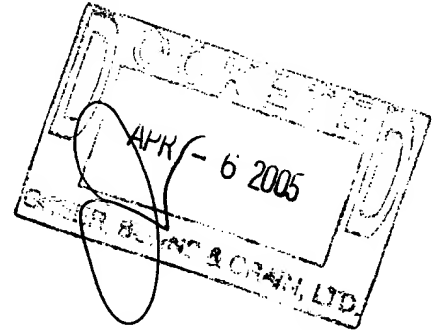
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4 April 05  
Date

Registration No. 29,367  
Attorney for Applicant



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Alexandria, VA 22313-1450  
ATTN: Certificate of Corrections Branch

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In accordance with 37 C.F.R. § 1.322, patentees, through their attorneys, respectfully request that a Certificate of Correction be issued in the above-referenced patent.

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GREER, BURNS & CRAIN, LTD.

By 

Patrick G. Burns  
Registration No. 29,367

April 4, 2005

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Suite 2500  
Chicago, Illinois 60606  
Telephone: 312.360.0080  
Facsimile: 312.360.9315

Customer No. 24978

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PATENT NO : 6,856,373  
DATED : Feb. 15, 2005  
INVENTOR(S) : Sekido et al.

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300 South Wacker Drive, Suite 2500  
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